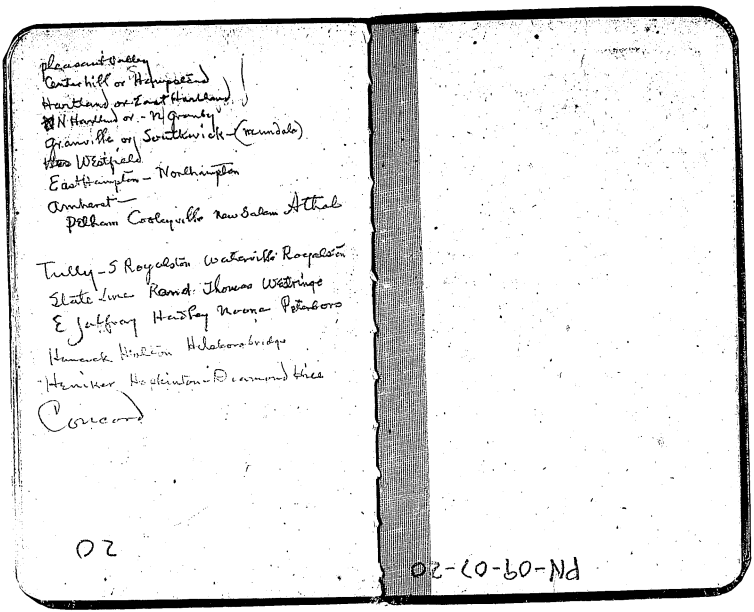
Notebook, PN-09-07-20

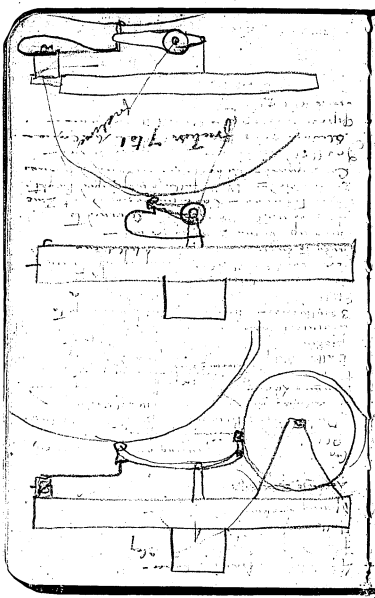
This pocket notebook was used by Edison during 1909 and 1910 for notes on experimental work and other tasks to be performed at the laboratory. Many of the experimental entries pertain to phonographs. Included are notes about various reproducers, possible amplification devices, phenolic resins and other materials for record blanks, cabinet design, and recording conditions. Also included are references to phonograph marketing, musicians, litigation, patents, and sales. Among the employees mentioned in connection with these matters are Jonas W. Aylsworth, Frank L. Dyer, William Goodwin, Walter H. Miller, Alexander N. Pierman, and Peter Weber. There is also a reminder to send private investigator Joseph F. McCoy to the Victor Talking Machine Co. works in Camden, New Jersey, and the American Graphophone Co. works in Bridgeport, Connecticut. Other entries indicate the number of musical selections from 1902 to September 1910, along with the amount of sales to March 1910. One notation providing the names of musicians is in an unidentified hand. In addition, the book contains notes on electric vehicles, storage batteries, cement production, and motion picture rentals. Employees mentioned in regard to these concerns include John R. Anderson, Jr., Herman E. Kiefer, Walter S. Mallory, and William H. Mason. There are also entries pertaining to Edison's life insurance, the transfer of property to Mina Miller Edison, and the use of space at the laboratory. The front flyleaf has been used upside down and the first page of notes has been written over an erased but partially legible autobiographical entry. The pages are unnumbered. Approximately 100 pages have been used.


pleasant Valley
Center Hill or Hampstead
Heartland or East Heartland
N Heartland or - N Granby
Granville or Southwick - (roundabout)
Mass Westfield
East Hampton - Northampton
Amherst -
Pelham Coolquille New Salem Athol

Tully - S Royalston Waterville Royalston
State Line Rand Thomas Westrings
E Jaffrey Hartley Verona Peterboro
Hancock Hinsdale Holcombsbridge
Henniker Hopkinton Drummond Lines
Concord

20

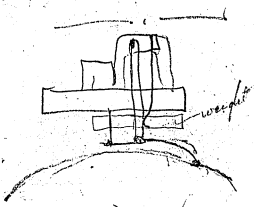
PN-09-07-20



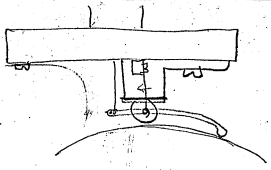
New Boston –
Otis –
Huntington

2)178
89
267

168
270

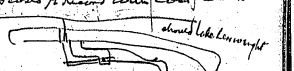


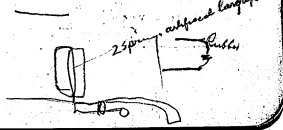
EDISON
STORAGE BATTERY
This battery is now made in quantity — It's invention is an EPOCH in the application of Electricity to Vehicle traffic
Send for Catalogue
Edison Storage Battery Co
Orange N.J. U



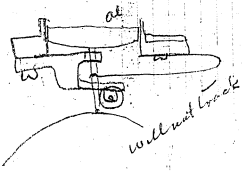
That big Chromate dyke at Rawes, get direction — probly dead Ca Extends alongside it away down in Valley
Cahabba get Oaktown whale hill at Powder House Ruddles + along dyke down in Valley

With some BiOH with green + make green
Take up circle 1/2 round cloth Count clank





use compressed Invoice - see Curtiss.
1050 Libn No 804 57 grms metal per Libn
1750 " No 84, 10½—

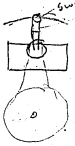


As Trad all Dia 4 turn area probably mouth piece about 6/8 H turn area. ie double diameter for loud but perhaps not for opacity

Try some of poor regs RA with Bi Iodide —

Work on bench less machine for Standard Home etc

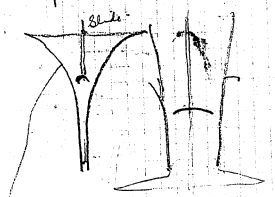
Standard Harmless



Make a harp with Piano Sounding board or Tuning fork box —

With Spica the wall do some work for me —

Try high chlorine Grignard sub in place of Br Grignard possibly Li Grignard complex —



Henry Miller get typewriting Notes + accounts + [illegible] + with wilted lettuce + [illegible] Accts Bills [illegible] to date Comment on hand +

Split in funnel + check it dry with Brass for explosive on inside —

Gold Salem to take up @ Rug dye make NaOH + dry it No wash 1/4 1/2 3/4 wash — + various dryings after Dacey gets them Rug not to dry upon first preparation —

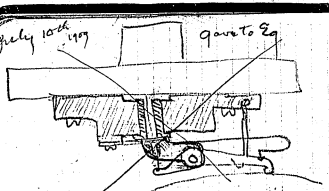
Eggleston design three dishrags to go in rug once a week. Use flotation lever.

Ask Case about Diglyl Thiourea + Acenaphthene Condensate.

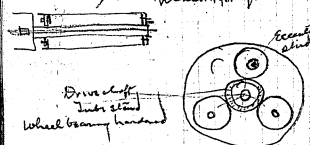
Write Dilbert for 100 lbs 1st Sample of Dimethoxyethyl for test use quantity here —

July 10th 1909

gave to Eq



Mand. for grand Chorus



Regent Dept How about Cowbon Talents if we reproduce a duplicate to reproduce from the 200 thread on Cowbon cobalt the record — also of a mantype reproducer also combination with the 100 of reproducer capable of two cuts —
Since we are now [illegible] Network Co. [illegible] and Cleveland people radio. Transmitter for sound pictures for record — have Regent dept consult & prepare —

12/160 (1
12
90

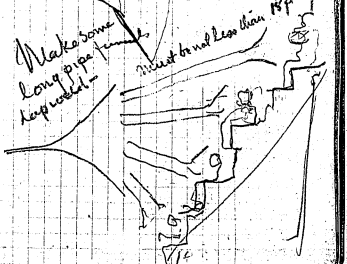
Orchestra

Regular Condenser

2 Rows or
3 Rows +
less width

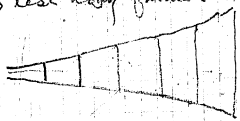
Make some long pipe [illegible]

Must be not less than



Try experiment of Loss at 15 ft distance
Using 4 or 5" tube open both ends
and less than 10 ft long

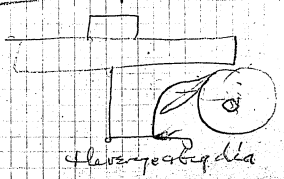
Move Hearn's small drawing in
drafting room - prepare top
room for Music recording
Walter for use as a recording
outfit by get Violin out
to test long funnels



wood - 75% openings
~~cut~~ Holes not
in Line - to bring
Low funnel to 1 pitch
of rest of Unit -

Opera Map 1 To 3 gives best for most
Singing 1 To 2 best for High + medium

John Lauria & Son
Musicians
252 Bank St Newark N.J.
Music furnished for occasions



Phonograph

Holland to take 8 plates
& charge them in large
Crock tho under ozone
Conditions as small tubes
then assemble in cells.

Waller Apsley make some
groups of heavy loading
lot with Single Lamps
if you have not already got
them - Then Chas Crosbies
Easier if work give a
lighter loading lot
on single Lamps + two
spot ~~marks~~ marks the w with
Reg then of 739 was
used with Double Lamps
lower Capacity Rogers Single
Lamp Cells probably double
lower loading lot

With Conduit funnels -
18 ft long can probably
use a very small funnel on
phone

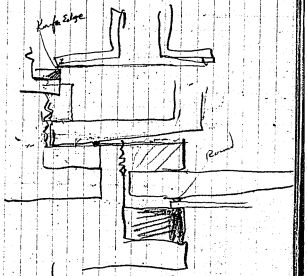
all ending in an end such as
just within a small funnel 6 inches
long even less

Waller Mike 48 green 4 f
with Double Lamps -
with Reg + also 1164 - or
other heavy loading lot
Little 48 + Single Lamps
with heavy loading lot

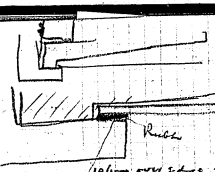
Holland lake cell
full 20 grms Li, equiv to 2 grms
Mon 2nd charge add 20
Carpet 2nd change + Keap
and during 15 until 120
added —

Little Salmon KOH 21 with
Li — then add at each
change 25 grms till gel
120 — all yellow cook
till 150 —

Patent Tolva Chloro Kap
Cathem OK
+ MP towers



prevent the sound from the felt hammers from being Conducted through the wood hammers by use of Sand or Sponge



10/from over edge not
fouled but weight pulls it down

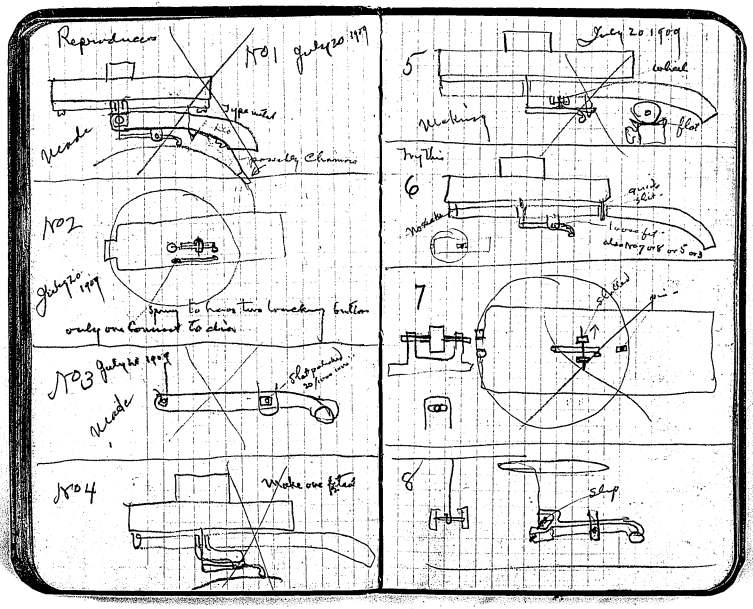
Heavy loading cost is due to
large powers dry hence easy crushing
ydried in Drum to some table
powers dry but being finer crushes
don't crush weak
Hence to get an Envelope of quick
drying use 2oz/a No 250 of drum x
it 6z ounce + big heavy
loading cost grown with
simple enough see if it should
Come right for

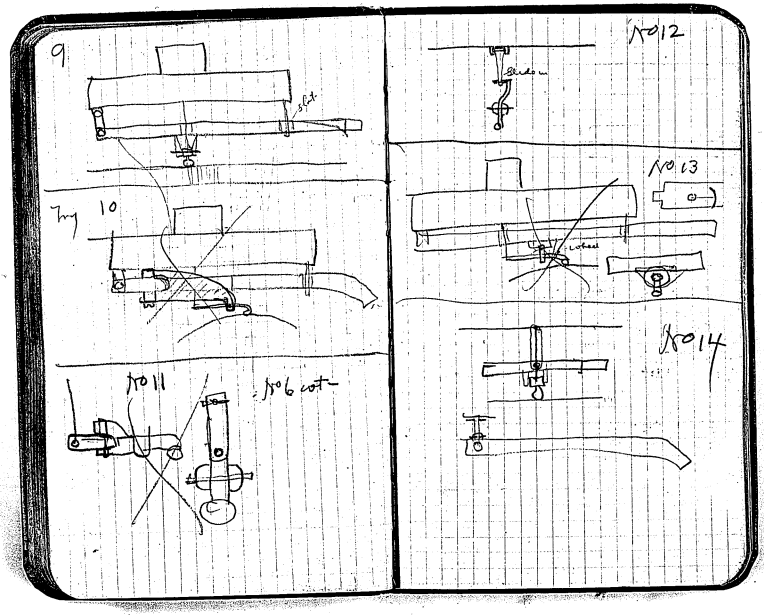
Put the blacks for Mthyl Cellulose
mass on Cement Paint
Hot Cement in bowl by trowel
Also Red hot Cement in bowl
works, see if Can get Colloid jelly

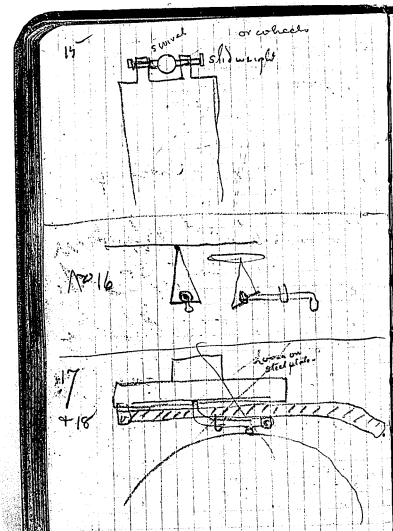
Mix pigments, ultramarine, used for
roof + paint

Urge Kestner Mason Constant feed Chalk a
Kiln with blower heavy the Coal + compound
air draft pressure

We have an extra fine grinder in
Chalk plant that we believe will
look up something that we can
grind fine that is available


Reproduced
No1 July 20 1909
Type writer
Needle
Transverse Channel
No2
July 20 1909
Spring to hold type bar
overlay over Comment to obtain
No3 July 20 1909
Needle
No4
Wedge over Slotted
5
July 20 1909
Needle
Slotted
Type bar
Mythic
6
Needle
Lever for
7
8
Slot


9
10
11
12
13
14
slot
Latch
No 6 cut



18

Ask Mallory for telescope
Edison + [illegible]

David S. Rivkin
39 Center St
New Haven
Conn.

Mrs. Rowland
will speak for us.

Pianist - Violinist
Francis Rogers - Singer
Leo Schulz - Cellist
Hammerer - plays beautifully

Have estimate lowest cost
½ size cupboard —

Use the Kiefer of low lime cement rock don't melt easily or combine with lime better clays of Ohio in low lime rock Kinds at town more suitable — Colorado

Use good lake clay make to test against Arch Lake

cloth to strain pulp

Wet cloth — Square Canvas also round with flat bottom
To be permanent frame

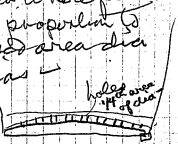
Have adjustable flat Roller and back
of each [illegible]

Benzpheneol —

Nitrogen tank, bromide Enzyme weight per ml. per cent of solids — Lloyd's Catalog

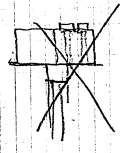
Make area where funnels go on in proportion to increased area dia on big discs —

also



Put Electrolyte Screw or Cork on Discharging Ferro-nickel Cells.

Put up 6 Tubes 1781 Ra with 159 f Bi fl Single Lamps + 412 24-dip 4.4 46



Sept 7 1910

Make Tube with Cadmium Hydrate + Flake also metallic Cd ~~for~~ Amalgamated Zn or Hg flake,

See if Lamps Dept great Appr ready for rectifier + also both a.c. current also regulating by means of + by cutting off some of Commutator

also Vibrator device for rectifying

Make Tube of Nickel & Tube with Cadmium Metal reduced by H by Zn + Electrolytically with Sulphuric Acid

With & without Hg
also with Bi Oh.
also Cmby from OX + Hg
also Hg bromide OX
of Cmbe & Bi & also
Hg

Design new ~~K~~ Knob
wanted

see proof Hgh Ad for
Comming Wk ~~OX~~ OK

Ornament the new
460. Cabinets
Make up making of
steel - Mahogany panels

Take out green & flake
from some of Tubes that
are bad & use glycerine
Etc & seperate use
little Hcl - Make up
new tubes

Also take some
very old tubes Reg
Trials with 1000 &
Treat glycerine & Cook
& zinc flake green
& make new tubes
see OK

See if B22 has tried
Rubber sponges & cap washers on
If bubble Decatur tried
on AB

Works inclined of Fe
an Antimony tube with
without flakes, produced
by H, from the Oxide -
possibly mixing Sb with
Fe & tube take Care
of the H. as antimonide
Hydrogen. This may
be the reason for get
high results with Fe
Containing Sb -

See if Johns Reproduces
drawings for Fe tube
machine turning it
up -

Henry 20 cell delivery wagon

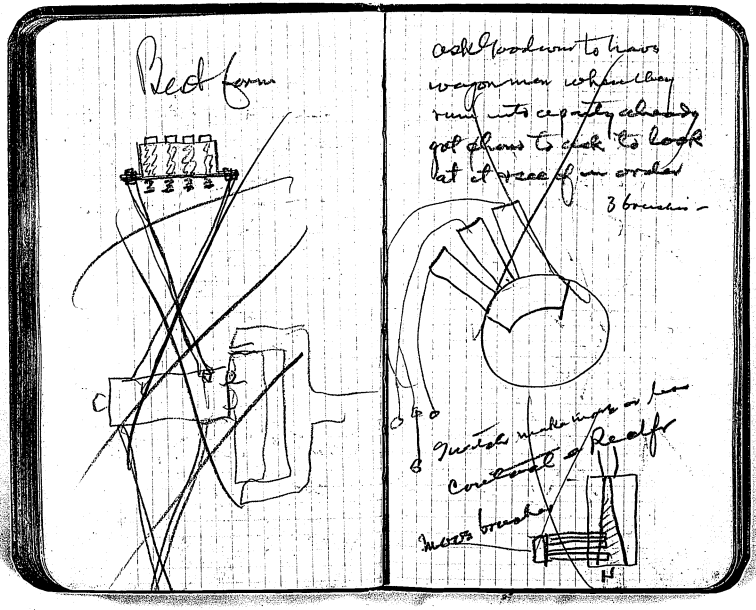
Get Record of Water gage
Drums for Accumulators -

Consolidate balances of
Orders in 1 or 2 cards
to save Expense -

Launder - sell by
Demonstration -

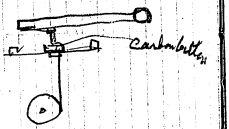
Write Anderson about
Mf Chg prices & Lieb -

Put Allowance on dipping
test Cans at Fallon on
Compounds to stop Leakages


Bed form
C
B
Switch make wire
Contact
Rod for
Brush
H

Try 2 grms Uric acid in
Iced Coca –

Try 2 mls Chalk under
oil to stop Evaporation
see how long runs
use no Cautions Cover'd
Urine at first only the
drawers to save drainage
Waters –



to Make true Microscope
after employing Heart

Dyers – colour not act as count
all over wounds + start
rending flow slé
. –

Mix powdered Sulphur +
Resin 4X6 – perhaps 5 well
Canvas stuff to stick to Can

also. Try. Sulphur + Selenium
dry on Calix Can –
also Sulphur Selenium +
Asbestos,

Dolly work on enamel
very low mp –

to provide a friction slip joint between 2 members Vib + increase resolution for overtones —

Webs to record out Phone changing Speed should not use fibre shoe

Goodman Mfg not ship Phones + Records direct to Wagon dealers —

Sell CO Records by having list 30 25 20 + 15¢

Wilson Bowling of the 3 Million Statement records having us —

New idea

Balanced wt. ... Especially balanced. Has low resolution from overtones but big vibrations greatly limited

Total Calculations Counted from
1902 To Sept 1 1910

Domestic	2 men	3408
Foreign	2 "	4760
Domestic	4	513
Foreign	4	793
Grand Op	2	70
"	4	58
		9602

Total Sales to March 1
1910
109 Millions

CO receipts since Feby 1904

Dom	1373
Foreign	773
Grand Op	27

Sept 30 1910 Dom CO Receipts on hand keep them

Hyams -
Use simplifying Lever on
Recorder with 2" sleeve

Frederick get Mabogh read
Heat trim with Mesker trig up
with Cyclone and Card about -
arc 1/4" Carbon + Tungsten Coil
arc coil 1/8 of turns 1/8 hole close
to arc, Jack arc of Lamp in telephone
Use try Mabogh on it.

Write Mallory Lafayette Cook
with Paint Boiz Since
July 26 we have sent
440 lbs emphatic smoke
7000 cyls.

Heat recent flake for
Brown - Heat Each Number
as Usual gets Warm

Goldschein to make 20 Otts with Sodium NaOH & Cryolite H_2SO_4 use as mineer – + keep act. of the ash on same sulphate

also try mixing with Methods Rd

Reduce to by 2% from Sulphate

Also try H_2SO_4 + NaOH dry
Then dry it, percolate + reduce by
try Ferric oxide process
Advantage only from H_2SO_4 precipitated into fused NaOH
Wheat –

H_2SO_4 + NaOH make mixed by hand in the Chinese pt product then they make now + force some component pts on by heavier use – set up to the Chemist look up capacity flow sheet of the pts now on test that shows good results from heavy tanks – Work can raise capacity 50% – get better Chemist with less pts

See if the Separating Cells had L. Off in an addition to the 10% KOH

Pictures

Big Tank 3 ft diam 3 long side of amplifier

Small Horn

Tell Higham reason for slow Loudness higher uniform speed belt gate – –

Goldschein – Make large Coal Stoves pints + fins – bottle pts use – micro + mark 1 or 2 c/e Chemist –

Selling plans Commit – when go around office to count time – Envelopes or envelopes + keep – with other good plans + quantity 2 Commit,

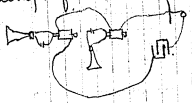
Otts Cincinnati – if use 2 Commit, Otts Sidewalk + block pts pts of same –

Chlorine Co – wires immersed still air blowing Home by wind mill, H_2O absorbed, then H and mill work chlorine + distills off water – dried regions – Burning glow on call to detect water

On chalk when working emery and Fuchsine acid or Vesuvin thinned by Cyclamen or Hyacinth oil -

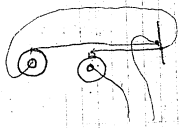
Immerse a wet chalk (working) drawing in Benzine -

Use 6 telephones in multiple also screw connected to one Mikrophon, each phone having a funnel -



Emg "Impulse for acoustician, hand Turn -

Use phone back To Bell then To Emg & that to Edisons records - also use funnel and talk in it see loss



work in series also multiple -

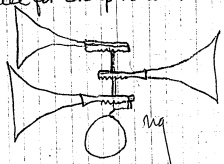
Make some Cylinders of Resin & Asbestos fibre for Petit to press Cast & shape as turn to Sizz

Try ordinary Rosin + Asbestos -

Try Gilsonite + Asbestos -

Try Asphalt (Atlantic) Elec + Asbestos

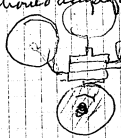
All for Cheap records -



Mg

This principle of sep chambers & funnels but acts also connected.

Should use plaster of paris



funnels

Try 2 more cleaning N Soy acc of chart spoil
[illegible] makes one chip + 2 dots bring up in H
which no Violet Tone — make sheet in
Uhrich sheep —

Mallory Hard add perlongs mean conc road
+ give time serve Conc on aggregate in
Channel Cpds, always Ammonia Gas
the ground + coat of Conc.

KCl & NiTrib required for K- make
up 2 Cubes 5% Co in green or mean
What we have to add 2 gram Nitrate
K to S of dittes 2 in Nitrate

Harry Mallory fund out Value of my
Mutual Life policy also if I
Can change it to add the children
now — 1873

Emulsion of gelatin & Turpentine
Spread to light showed give ozone
& ox the gelatin specially on
Turpentine add to plate, it seemed
be more sensitive to light

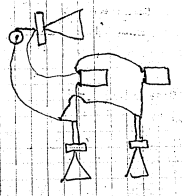
Chronic Lemon test finish as
can dip A [illegible] then get
Couple — more from phenol
wrong about dip

also one Tray from Waverly
Cannon Tonnel + 3 Rod
machine near slope after
Weight test but unmade

Heater drawn called full size
+ see how many Grabs Conc
when Compressed 1/4 3/8 1/2 + full

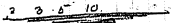
Mason only real big 3/4 return on
Cincinnati Elec at work 1/4 go up
or 4 elevators running up to Church
inclined S belt top block House

Waterproofing go around get Painter
use it —

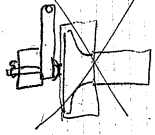


Piezometer

Throttle - Make Sr CO_2 bellows
dif. accurate Micrometer. Thumb lever
unknown, probably closed by Lubrication
also try dry -
Try Carb Rebuilt of free Kill to wet
Use Mica built up disc



Make Carb Transmitter Unit



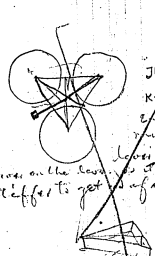
Ball Silver float with Carbon on
Bellows levers Try Al, Tin, Lead in
spares Lamplblack in

Try Big Lamplblack surface with
Silver or gold foil

Very thin Silver foil (smoked) ~~Silver~~
chalk on a wooden ground Edges -
6" round - possibly 2 of these -
in closed glass chamber

Piezometer Wolfe ~~make~~ rubber ring
Dome .002 dia - is Al seamed first
must be

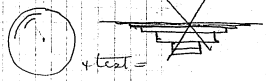
~~A balloon~~ A balloon (made of smoked foil Lamplblk)
one end on the other 10 times the pressure
a bottle,


The records drome a
Keyfob edge of cardboard
Levels with lower
Arm to recording
levers to increase the
pressure on the levers, as it acts by inertia.
difficult to get it off centre.
good

Vaseline & lampblack - by CO_2 mixed to Cast very easy, also difficult to make record compact, very brittle. Cheap. If cast shop specifies powder + not Lamp + cast takes no power, likely no scratch →

In Pathe rec make Mean class

~~2 3 5 7 1~~ 2 3 5 10 20 60



+ test =

Strontium Chromate - Calcite Kaolin - Fullers Earth, Rice starch, Cord lead, Kieselguhr.

Wet dip powders + let them dry acc of Cake together sufficient to record - dip glass tester, 1½ days in wet stiffer than dry, wetting & soaking - of trouble of can record, then good plaster

Also Paraffine, or Vaseline Tell when Cold must heated together must be low enough then melted + add powders + Cast record Dry powders

bottle, then Paraffine + vaseline should are plaster = better Castor or glycerine, - try glucose, Camphor, Naphthalene

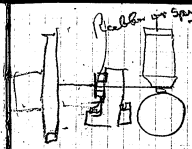
Wet powders with ~~Acetic~~ Sodium Calcium + other powders Neat will Cement powder when it dries,

Plaster of Paris best, - must get free lumps + dirt, Cut fine

Wilson order No more
wastes Moulds Resistance
wanted after Record Weapon
Expt =

Dry panning with a brush
with aq $SrCO_3$ over a porous
cup + dry see if crystals when dry
also in alcohol,
Benzol, Ether — any? acetate,
also in soln of Chloro dioxalato
Nickelate + Nickel ammine
Nickelammin Chromic ammin
Rubidium.

See what Platinum + Ivory
dust from bench on fingers —



Both Reduce H_2S from
works by producer gas from
Record plant, Keep H_2S out

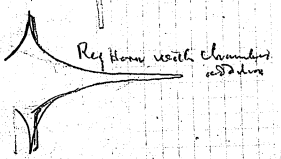
Goldschm, See if can purify
Reg $FeSO_4$ by recrystalgn
2 or 3 times

Grind up $FeSO_4$ + NaOH-
work same as Ni + see if drier
powdery. So can reduce by
H_2

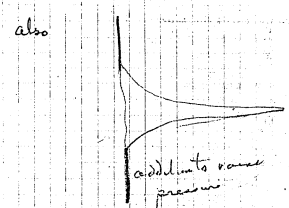
Make 2 flat pockets, Add Oth
reduce to metal wash dry
+ recrystalise —

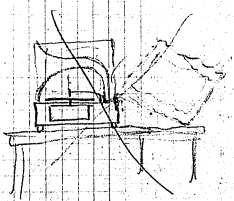
Have made a change year of Covering
Ear Ichewmat so can get plates
Letter of Electrode

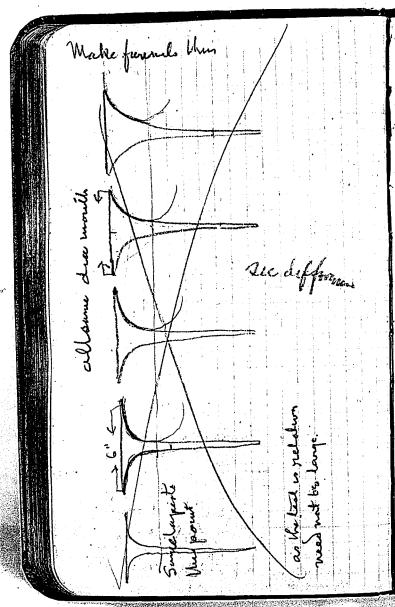
Wet with 1K KCl, Li Cl, Na Sulfate
(1.0M KOH NaOH) 1M Conc 1 OH.
NaOH + Chromatelide mix of all
3:
Wet with Sr OH, BaOH, CaOH.
ZnCl with KOH, wet with
(SrCl LiCl CaCl, BaCl with treat)
with Bi Conc K-



also







Patent removable [illegible]
Recorder – Simple in Post Office

Mallory = better pay royalty on Limulin to me for shells use – also ask Kong 9 (Hong) on basis with Raud, am 9 credited with interest etc –

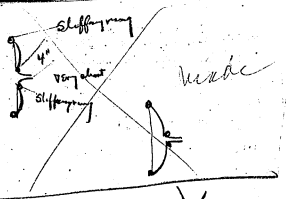
Gravity micrometre 1/1000 acetic acid [illegible] for recording –

Holland Total bubble Dendron on Cell which dent [illegible] below Valve to keep it well damped so the damp 7±0,

Burrows Simplex for used for H2 on of fume –

Set up a Cradle of 4 with new drops on + drop it well with 10% + see how it acts – put in Holland Electron Coupling to get heavy Voltage –

Have Chinaclay drop for filter Cold water gas to it also [illegible] Con must dry then also loose heat / with resistance drops on –



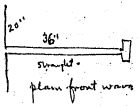
Fred Otis Splint made platinum on Chalk Talk with 3 parts no de carbonite

Vacuum Cleaner Section in beg garage to clean Lap Cells. - Benzyn filter pump

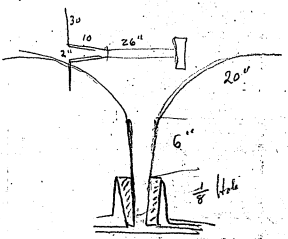
Drop milliamp Section on Benzyne pump in mechanics

Chlorine source of gwa Resin to get rid phosphorus

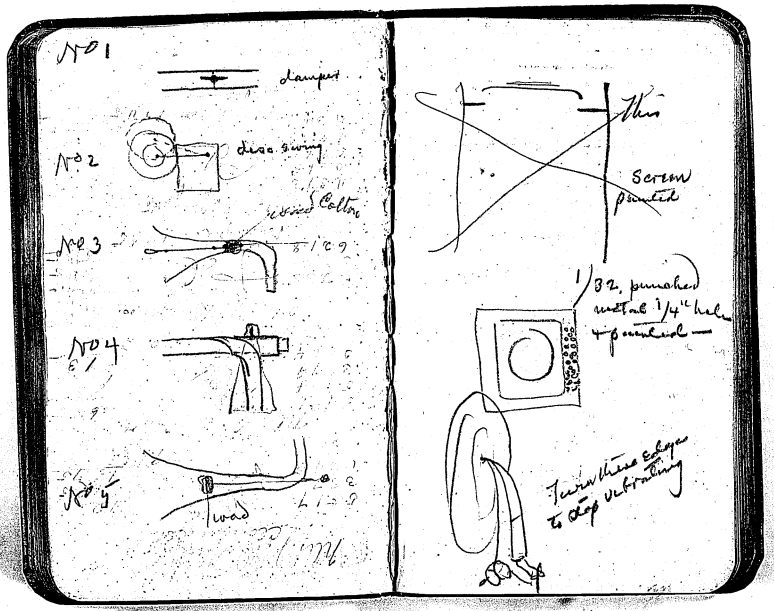
Make 1/2 lb of SO_4 NaOH. on rolls - percolate - donut, use of funnel - reduce strength - for make 1 also afluorouret acid to Ralph.



plain front wave



Mailing look up ads question Crude now very cheap

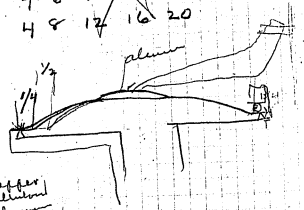

No 1
damper
No 2
disc swing
No 3
wood Collar
No 4
No 5
lead
Screw
punched
1/32 punched
metal 1/4" hole
punched
Turn these edges
to stop vibrating

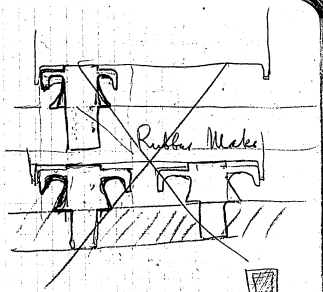
Dodge marks ~~& trying~~ with 1A4
with Benjamins device —
~~drawings~~ for drop test.

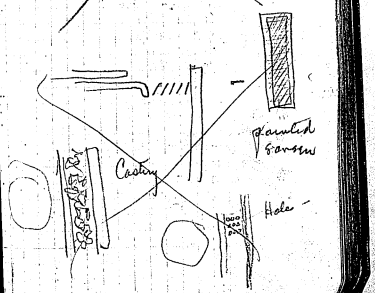
Walker – if break loaned recom
we take one off them instantly or 15¢

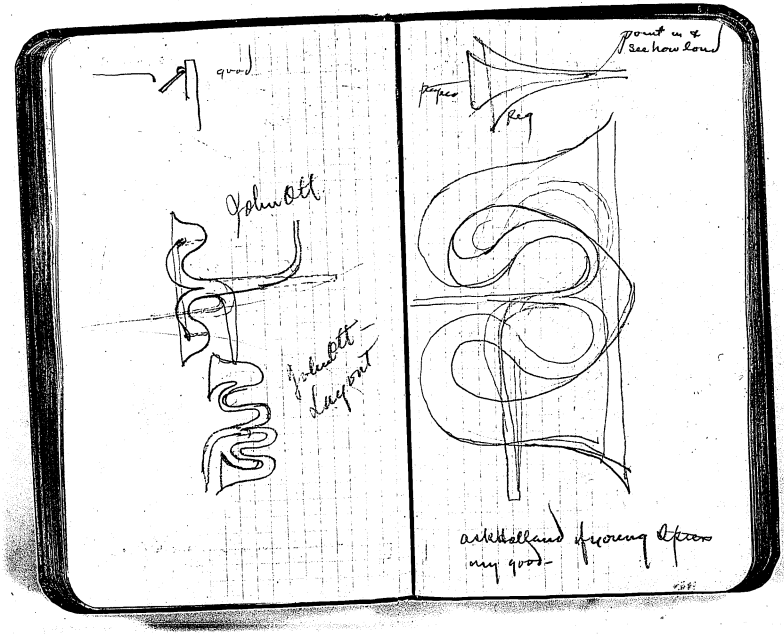
Wheeler

2	3	4	5	6
2	4	6	8	10
2	6	12	18	24
3	5	7	9	11
3	6	9	12	15
4	6	8	10	12
4	8	12	16	20








good
Johnott
Johnott-
Layout
Point in &
see how long
Pages
Rig
article and growing pages
very good-

6 gms Resin Chlorinated 1 hour
3 gms 3 gms Tetra nap 1·2 grms
very fine needle fibres - Thin Hard wires
work fine in spinning - Tetra empty out
turns yellow - Dry very hard - nail cant
scratch it - pretty strong - 10 times stronger
than req Mention record ⁂

3 = 1 Hour Chlrd Resin
3 Tetranap
2 asbestos fines -
Little too thick but after skimming it
was fairly liquid & poured it out but
too clinging - Think 1½ grms is off
of asbestos - The bottles is very hard
& stronger - Cant break it onto bottle
Think this could be worked but 1½ grms easy
to bottle - Cant use any less tetra
too thick - It very difficult to
cut bottles, Think it would have great
strength Capacity of asbestos with
respect wanted not break out on deep
dents on up hill ends -

3 Resin Chlorinated 5 hours
3 Tetra Nap } 2 t dont bubble like
1½ asbestos - } 1 hour Resin -
Fairly thin supposed to more comes &
mix it better - it would work
ok & thinks -

1 minute after skimming in bottles
Jar of Triple designated asbestos dropped
out Pint - pattern thin stirred it up
skimming fine fibre worked + 1 minute after
stirring look excellent pint was only
it got little thin ② asbestos - under
Workers to ask but not as good as the very
fine - Think 1½ minute would be ask

3 1 Hour Chld Resin
4 Tetranap
1½ 1 minute asbestos - its
much longer fibre but when
liquid not enough to keep
resin in Tetra it goes in by
skimming - liquid OK for
Spinning when enough poured
all out from dish -

Notice must melt Resin
add little Tetra till
passes bubble - brown then
add all of Tetra

after adding asbestos it chalks
Use Resin as it seperates from
Tetrene but one heart gets up
it goes together OK.

Bullon, hard to cut can't sandpaper
with Nail - Can't break button.

3 1 Hours Chalk Resin
5, Tetrenap
1 1/2 Asbestos 1 Mineralite

powers Chin but need to heat to
keep Tetrene in but to OK
Would use much Tetrene if no settled
out on top of Lacquer. If Tetrene
about right, only little Tetrene
settled out on edge, it worked work
OK in afternoon - But wood take
hard - breaks funny easy
4 Tetrene Resin 1

3 1 Hours
4, Tetrene } worked good
1 1/2 as

about 3 tetrene or 3 1/2 ably best
to 3 Resin 1 Hour pelow heat
& 1 1/2 mm asbestos

Required Resin to better clean
Chlorinated rosin - 3 Resin
3 1/2 @ 4 Tetrene, Bowl with
perhaps asbestos

Cook B & till it harden
then mix with Mineral also
with good Resin & Tetrene
also B & Resin alone -
Try Resin & Carbon one with tetrene
also Linseed.

Holland about 4 hrs Req
Cells with 25 minutes OK system
stands for 3 mins each min from
freeze L, then degrease to
24 40 2108

Speak W Dixon Dyer Docksey & Gibbs re Specific cumbered records Hard Material — Worked out prices Doc on all records to be used on the special material —

Apply Legal Dept - patent on new recorder — also Cottonball modifier —

5 Shellac
4 Tebra
2.5 Rosin
5 1½ mm Asbestine 4 Polystyrene
4 powdered wood

Try BS Hard

Pressure under ½ hour clean 1/32 flat Elyc material ¼ + try again —

Try BS =

Put Break req mountain record + Coat with 6% Shellac Tebra Zn + press —

See if rubber mandrel — Gallon pouring for Cary records

Put up 2 tubes 3 ft rum 3 — change to 21 K 2

drop 4 ft 5 ft 6 ft

also dup dry tube in Cons ft then in 21 K 2 ft

dittos in 3 4 5 + 6

Fred att, my chalk asbestos &c
with powdered bowders Rosin
Asphalt &c hot to make base
to use mixed up in
Shellac in Alcohol. B.S.
Mowbray —

5 Rosin (pine) &
5 precip chalk
for base can powder
when well mixed &
hot about same as
over Shellac Let us Try
thumb & Carb Connell
work —

5 Rosin
4 Bag asbestos — Thin
Enough — not strong
Enough but better than

the chalk — it is much
stronger than cumberal.
little sticky

5 Rosin 5 bag asbestos
little thick but runs
out of dish & makes
nearly flat cutter
Thumb this can be
worked OK
Cut hard — very strong
& OK — little sticky

For Base for Joints used 32 oz
Rosin 30 oz Asbestos sifted
thru 40 mesh — to mal
Extra strong thumb can
use Equal quantities
of Asbestos & Rosin

Stirs to [illegible] mould
hard put paper. Mould
Can use in lieu of
graphite a bag of the whole
mixture & then inject the
Rosin Asbestos

Mould Moulded blanks for Retort
Wash Rosin Mould with [illegible]
Bingle graphite impregnating paper
Mould Moulding, blue paper
fibre in whole mixture in mould
Dry Sulphur mixed Rosin
ditto Sulphur + Asbestos
Sulphur + Talcum ditto asbestos

Wax 12c	14.74.00	
Carbon Lubricant	.99.25	1 74 00
Sundries	.12.00	99 25
Talcum	1.81.00	12 00
Labor	1.65.50	1 65 50
Freight	.45.00	45 00
pkg boxes	.51.00	51 00
Advertising	1.22.00	5.46.75
Incidentals	1.52.00	
	10.3/100	

200 pressing moulds
2 accumulators
6 melting pots
4 paper scissors
6 melting kettles
3 Skimmers
6 Ramming Irons
600 lbs Lac
100 Talcum
Skimmer Zn

25000
20 hours

73 Bottom of Cell Rubber
mastic and to round
#10016 = 3c for A4 cell

Mould test record with some Chalk in
drills blowing in
" Shells thin Mould in

Grafelign ½ log dof
Run desc + for a mark with eye glass see if it shifts

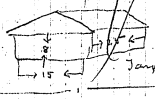
John Ott Assign a grafeligor for 25 ocod Records 20 hours
Req up Quicksand
Order with bag of magnum to keep grafeligor dust

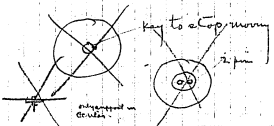
float test Chalk + thy test
float Asbestos + try test on surface
ask Legal Dept of patented grafelign Records of all body Discuss if not Chasm new adhesive for grafeligor Records
Make record grades of graphite Mark Coarse med Work Belly test,
Add Mouth Grafeligor & Lac Petit Company

Dolly

Get Tray of 6 Cells fit up with Rubber supports put on a truck & put buffer on & run against solid stone

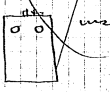
Heater drawing from work cloth House in yard





Look up Vacuum pillars for Petrol filler Cadillac

Possibly 2 side brackets in A8



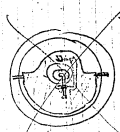
Weight the Rubber insulation under Cell =

QWA - Coloured Card blank with heavy stuff -

Rectifier -

not both ends resting on metal

Corrugate bottom of battery Cases to stiffen & prevent distortion, Except where bottom go -



made

Belgian blox
Wood blox
Paving brick
Jarvis
BS
Viscose + sawdust, also gravel
Coat wood chips
Chipped iron blox
Asphalt
Ledg.
Rubber Crumb Pet + sawdust 1/4 stiff

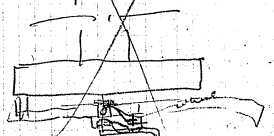
Have Allons boy look under
Micro see if any fine precip
have needles

Put Phenol in Woolan
Record Them dark on it
Cry gas Formaldehyde
+ Sunlight to harden

fix up old sand Crate for
A8 for Cop height high
moisture

Oak Bridle Theca gun
one in more in height
dills field

Pierman with 1 1/8 dome recapped
use 1/16 Rad + attach without loosen
to reduce amplitude



Advantix Adval 1 or 4 + no print
mention see the clamp outline
+ Pa Tow gun Wilmington
Cleveland Chicago Detroit
Boston Phila Brooklin
Buffalo Pittsburgh Cincinnati

Doubtfulto use the graphite bag rubbed on record.

Dyer - McCoy got to Victor & Pinedyepoot Count —

When get battery stock Transfer ~~Count~~ to Musical fro. Mullin —

~~Quit here 2/4 of Count book~~

Give her more Cement Grade — + 250 and Phono Works Check

See Howard Mfg Co stock stands Transfer sufficient Music Cabinets

Have Gwin mem Count 3 or 4 records of hardest Mountain — Gradefalings.

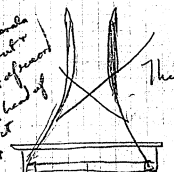
~~get 2 Staples~~

~~Staples~~

See Dodge & Have him Mould on Tools 3 or 4 grades of Mountain

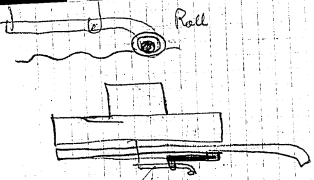
found out how Smith got along See How Pierman ~~all off~~ spring worked

Give Webber Whilles About about ~~D~~ Ash Violin in this book —



How can automobile ~~fenwelled~~ out of ~~Tray~~ wear of rear thumb position hand of are wearing at ~~and~~ or where ~~hand~~ ~~and~~ of ~~and~~ 2, 3, 5, 8 ~~and~~ ~~and~~ ~~and~~

See Webber about Dia of ball used thumb for large Dia cloth off log mills



Make leverage 2½ to 3 to 1 to allow for spring of Aluminum using very stiff spring - Film worked at Negative on Attala type camera on at its speed - test about jumps Caplan on record & Chronicle -

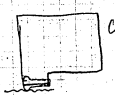
Lous Attl, get some good Tessar film 5 by 7 Wabash Avenue Attala Chicago Ill - Dry Plates decantalum dry - reduced by Producer gas at Works, or Coal gas -

Rent out desk - Lighting Batten Clips gun & pumps -

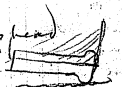
Gum Colyn not make coax Rent desk batten in Wisconsin to bubbly spot out -

Cut Mounted in Montana dog records with 10½ Mistake check to test speed -

Use test record with Baker one a Recorder thread to get 10½ X 100



or took up head

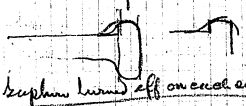


Measure of diffrent shrinkages on test records 200 per inch

See Barker also Dilworth re Bowls
See if can't get more weights
ditto Lancaster re Gramophone
want ½" or ½ more width

Get to Bloomfield or ask Blakes
if he can put hard rubber cord
a pin or screw —

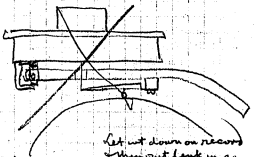
Weber Needle Syphon Uses



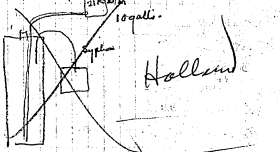
Reg Syphon turned off on each side
to .000 —

Get discarded Mould with
Round part 4 men &
pour in Tower def materials
Mould record with Phenol
in as it hardens (while
Opening, or use Gerard Room
& harden after unloading
with Formol.

Get 53 turned to 70 hours
Petal press a regular Monday
Record wax — Use one of the
harder — also Lac to get wear less bullon
+ball —



Thus loses long swing



See if 10% Talc Hoc can be
put in Monday spray
on Record —

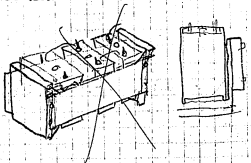
Get old loud record and move to open a mountain Canada with for wear test, spin other stuff —

Open a tetralene with lot of Telva 75 Lvc 25 Telva 60 Lvc 40 30 Lvc 70 Telva — Try in small dash first to get happiness —

Patel push decorate around a tetralene record, Mark + Ann paper —

Dodge about flat cap at Coalcom office —

Ask Stokes to send pound of Hardrubber machine ready to Mould + Vulcanize — Try it on a Beam



Tell Dodge Wax dept Tetrachloride Carbon 150 Kahn —

When get Spfer OK sure on 4 mm get a ball point race robot wear in built perfect Trackin ball aligned wear record less —

Try Hard Cedar Quercus Etc with Telva wax to get hard degree

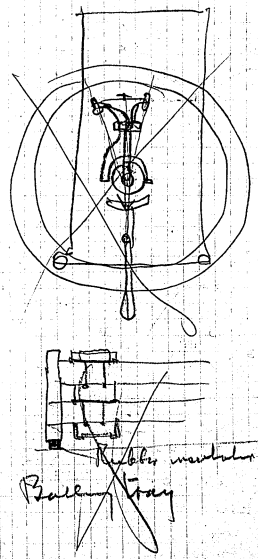
Get saxophone in NY near Electric advt

Started —

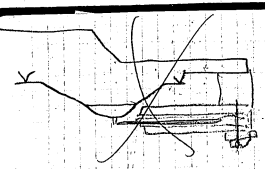
Why not run Kahn 4 days but at 23 @ 20 66 hour pays cost —

Celloidin sections for Engraph
for inclusion Bakelite/celoidin
of H_2SO_4 - Dry under less
pressure than 1 cc —
+ not over 40 c —
Coagulation/Coy. Electrolyte

Drop strands of gum
Resin in formaldehyde
dilute with Engraph saturated
with Hexamethylenetetramine
Hot or glycerine bath.
for Silk — Test a drop on oil
Resin Wash by hand —
on a gum Resin after pass
decalcifier 4-6 in the right
BP solvent Gum Fluid
then pour over to
Harden superficially

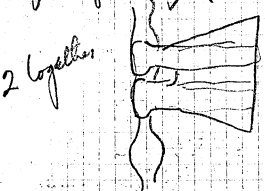


Rubber mould for Block Tray



Run 200 times on a smooth record to see where there is no vibration

Send for Flehrman & tell him about Tetraethyl Pb for his motor work

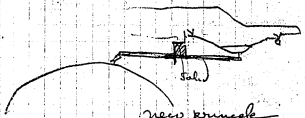


test with the aq. sol. of BS for gold

dissolve 50% of the different aesculins in 95% alcohol & then dilute to 1 liter — yes

Brad Tetraethyl in alcoholic KOH, or NaOH

Tell Prentiss to go to double surface speed & have his recording plane fixed up —

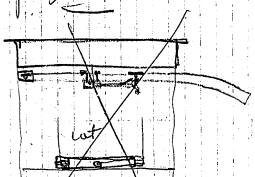


need principle like fork.

Procedure - Add cold Chloroform & Resins to diffuse - Extract try resins in best accelerator solvent to make differ obtained - Extract some more

Ozokerite Asphalt by Nichols till it dont melt — then Chloroform to

Ask Dodge for Zinc in shapes Plates, Grass, Cable to Benzmann —



Dry test - 2½ x 6

15 @ 20 amp lamps at 100 volts lamp rate —

Put men on depositing one Carbon or Ni. Manganese for Natural acids Or Hard for Dry Cells —

Ask Rudolph, also to find a better Solvent for Dry Cells —

Make a wear test on 2 min Mountain with Req Recipes for Rear preparation,

15 Shellac
5 Tolu
½ Zn Stearate.

Make Edgel quote for Wells Mills for testing two records light not also —

See Wells Mills about Vaudeville on records size & shapes

Try Skynet Camera
Skynet at a Rudimentary
try cable (Remove)

Try high Cap 3 Volt one amp.
with Aluminium Case 1 amp + Condenser
for person Amplifier Ph 02 in
dry Cell —

Weapon idea mercury switches to form
louvre, 150 to 500 pamphlets once with
away from RAF —

Rig up Mabo with make & Break &
Change neg cable (Red cable) at
Double the rate but open the circuit
½ the time. Then might prevent
Electric Corrosion. Might work out of person
of Mr Cobb's. See Ill about —
This is important Expt.
Try of 7s hm for ready measured
time away = 60 seconds 4 or 5 breaks over

Alter new Crake test OK makers no
for B4. Make all Models
at Lab for all Crakes + Slope
Hold Originals no models
make drawings of also RR Crake
Make wet & dust test for leakage
When new Reptor OK make
jarring test —

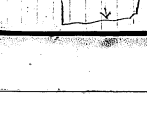
Heater make Squeak due to squeal
Eliminate by Shrinker —

See Dyer Ill about to have
Mr Stedman come over for a
Talk —

See if Crake will go in Mr Cartan OK good
Try Gilsenite Chalk + Emperor

Long taper to soften the sharpness

Smaller dia Dia for desk To
make go easier
Very thin rubber between brass + dia
or paper or cork



Dodge makes me some records
less soft in central degrees for
worn teeth - Hard records are
duller though not frost -

Try chrome steel

Archer - make 3 sizes 20 22 24 - 27
30 33. to test hardness + see
Capacity. also Schimpf scheme
20 22 24 27 30 33 —

Rig up spanning device on Wilcox
scheme & bench for reading + working
with Wayss —
develope a deep cut reading
way + Petit 20 below Zero
Gage — a tougher material

Piemans test new one file on
very weak records

Iodine in Calcium chloride
take it from asphalt bejant
to compare it + also try
possibly sulphates, to discomp
bejant to compare.

2 knob wheels for trucks
4 springs to knob —

Cement
Reinforced Cumberland
Cabinet —

Try some 4c shellac substitute
for discs —
Dave Glen makes press
Victor shake + try wax
ie send over we try it.

Go for diff disc diameters
Hoss below —

Columns Labels & Timbers
in Dec sheet only drooling
at 34 about leaving
def Chemo

When get spanning Lathes make
Reg wrap mucilage with
Chalk also with some
Dec, Enamel – rather thin –
test for wear

Speak Opelika about pulling
Manganese wrapping at Cocoa
to keep cradle down –
i.e.

See if Dec can be applied to
140° for Opel rearm

Chalk Celotex with Lith de Kolt
in solution + dextrose) Collards, or heel
in suspension

get a new book –

½ Dec sheet Expt 5 grm Cooke Fe
4 Nickels –

21 K 2 Li	21 K 2 Li	1 grm KCl
23 K 2 Li	21 K 2 Li	3 grm KCl
25 K 2 Li	21 K 2 Li	1 " PrCl
27 K 2 Li	21 K 2 Li	3 " PrCl
16 K 4 NaOH	21 K 2 Li	5 " KCl
	2 Li	

All above with Bi Citrate –

168. to spoilt by a miserable weak accompaniment
40016 is very much better accompd London ab Lang some reservation to Violinist in sound of the singer. Most of our records sounded true singer before you overdubbed 8 miles Alabama -
40016- by Sylvia would be good available -

190- Lecog - OK - but think Sylvia better - accomp not loud enough fine record for disc — Lecog has more music in his opera than all others —

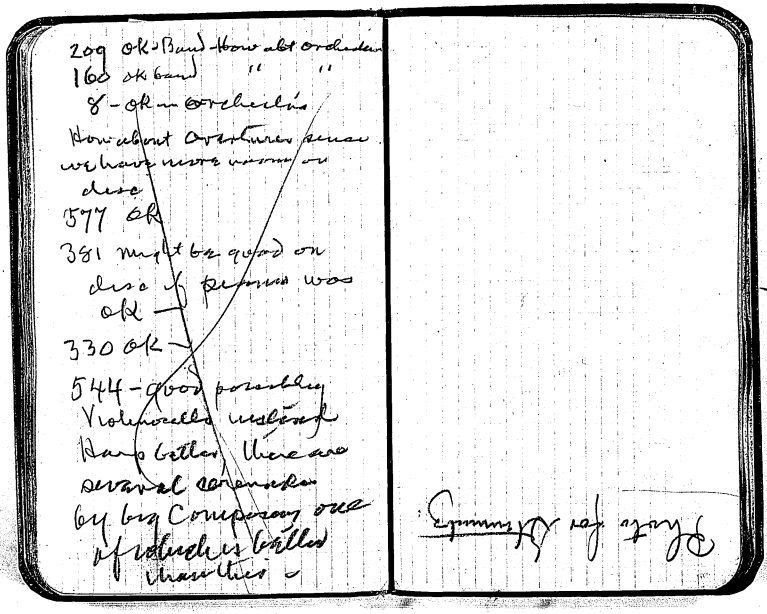
173 Scarcely hear accomp Rotten in 1st part
June 29

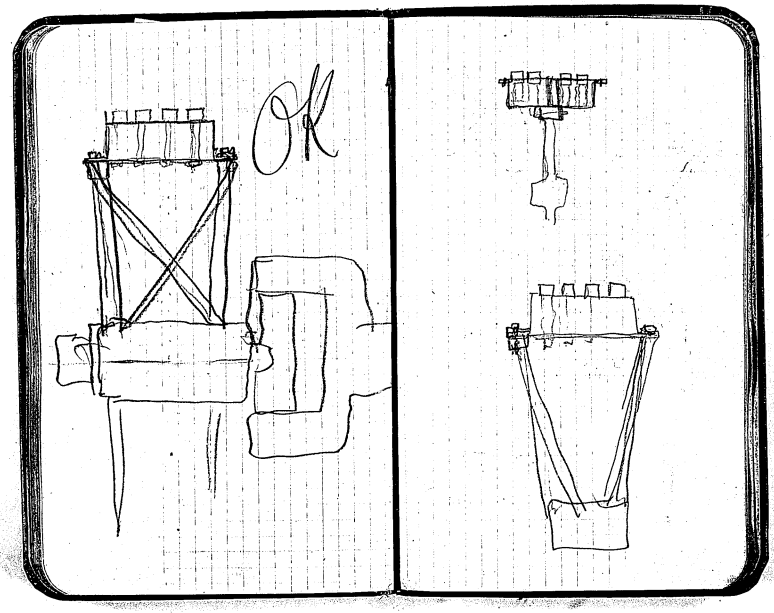
40021 - accomp comes thro Little louder OK

Not room enough (cracked) drawers — Tops too light on records it pulls them out without thumbnail on edge if pulled out can't get back —
Although a rattler 06 — Records so high without perfectly level catch Top — ?

35009- as a specimen of pyrolabrings if you can get him on disc perfect you have the Vic Renowned & rivaled to the Barn door thumb Sylvia can do it better but Kurz is really good — tho no Pure Lind pure pyro

513 Grand Slumber thumbs fine with Bay Orchestra


209 OK-Band How about orchestra
160 OK Band " "
8 - OK in Orchestra
How about Overtures perhaps
we have more room on
disc
577 OK
381 might be good on
disc if previous was
OK
330 OK
544 - good possibly
Violoncello missing
Harp Cello, there are
several selections
by big Company one
of which Cello
Overture
Space for Symphony


OK

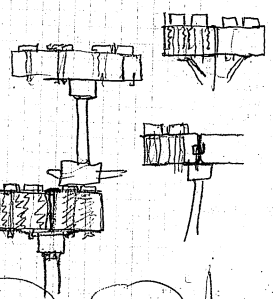
EPC

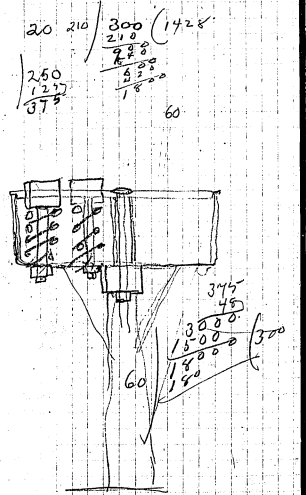
Notes recvd 22.106
Accts " 206.754
Cement on hand 280 000 bbls.
Cash 60.000.

Notes payable outside
accounts payable 141 732
Midwest notes 123 976
Notes against Cement 220 000 (discounted)
Gilmore 2nd note 93 540 (discounted)
Notes against Cement sales not yet paid by Jae. 116 374
Dresden Notes (not E) 161 860-
JAE Notes 712 658

Note JAE endorsed 263 540

Lincoln Sales
week ending June 26 12.086
" " July 3 913





365 Jan
117 - fun for Pianno air -
93 fun of by a large orchestra
40024 - Rhetorical accompaniment alone by London good pieces for duet wants more def[illegible] Volumes in the Orchestra -

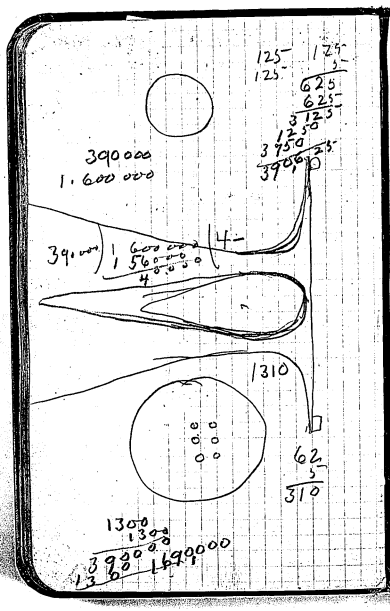
Speaks to Weber no margin put reasons in Olympia Ltd Hardware Bellum boxes woven mat

185 arrival fine song, fine Rhin was sung Bowden Apprehension Coan Hun Co dining duet Pianno - Jury air -

Blanch Oral uneven low breaks too strong - Sylva OK -

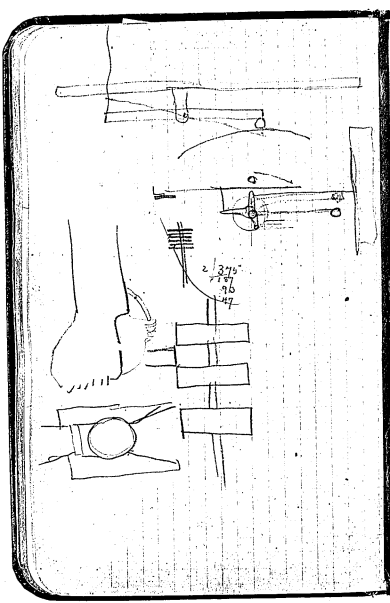
40017 Delna too vague - Sophrano - OK for Ld and decent tone -

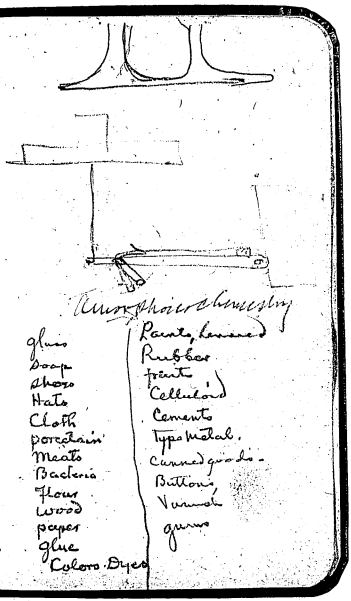
194 Sylva OK -

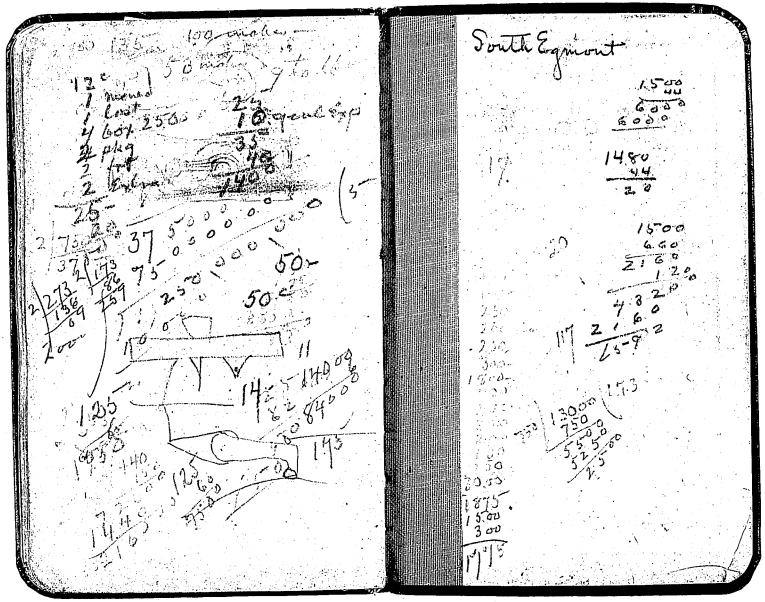


100 Lbs $NaOH$ equiv. 349 Lbs Na_2SO_4 10 H_2O
100 Lbs " need 863 " $NaOH$.
100 Lbs " need 100 " H_2SO_4

24 240 (10
12
20
24
6 15
24
6
144
2
18
2 20
1440
216
240
192


2 374
197
96
147


Amorphous & Chemicals
glue
Soap
shoes
Hats
Cloth
porcelain
Meats
Bacteria
flour
Wood
paper
glue
Colors Dyes
Paints, Varnish
Rubber
paints
Celluloid
Cements
Type Metals.
Canned goods
Buttons
Varnish
gums


South Egmont